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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/724,096	12/01/2003	Young-Tacg Sul	1504-1035	1393
466 YOUNG & THO	7590 01/23/200 OMPSON)7	EXAM	IINER
745 SOUTH 23RD STREET			STEWART, ALVIN J	
2ND FLOOR ARLINGTON,	VA 22202	•	ART UNIT	PAPER NUMBER
	·		3738	
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SHORTENED STATUTORY PERIOD OF RESPONSE		MAIL DATE	DELIVERY MODE	
3 MONTHS		01/23/2007	PAPER	

Please find below and/or attached an Office communication concerning this application or proceeding.

If NO period for reply is specified above, the maximum statutory period will apply and will expire 6 MONTHS from the mailing date of this communication.

		88			
	Application No.	Applicant(s)			
	10/724,096	SUL, YOUNG-TAEG			
Office Action Summary	Examiner	Art Unit			
	Alvin J. Stewart	3738			
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply					
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).					
Status					
1)⊠ Responsive to communication(s) filed on 16 N	lovember 2006.				
2a) ☐ This action is FINAL . 2b) ☑ This	s action is non-final.				
	3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is				
closed in accordance with the practice under	Ex parte Quayle, 1935 C.D. 11, 45	53 O.G. 213.			
Disposition of Claims					
4)⊠ Claim(s) <u>1-5,7-11 and 33-37</u> is/are pending in the application.					
4a) Of the above claim(s) is/are withdrawn from consideration.					
5) Claim(s) is/are allowed.					
6) Claim(s) 1-5, 7 and 33-35 is/are rejected.					
7) Claim(s) is/are objected to. 8) Claim(s) are subject to restriction and/o	or election requirement				
o) Claim(s) are subject to restriction among	or election requirement.				
Application Papers					
9) The specification is objected to by the Examiner.					
10)☐ The drawing(s) filed on is/are: a)☐ accepted or b)☐ objected to by the Examiner.					
Applicant may not request that any objection to the	= · ·				
Replacement drawing sheet(s) including the correct					
11) ☐ The oath or declaration is objected to by the E	xammer, Note the attached Office	Action of form FTO-152.			
Priority under 35 U.S.C. § 119					
 12) ☐ Acknowledgment is made of a claim for foreign a) ☐ All b) ☐ Some * c) ☐ None of: 1. ☐ Certified copies of the priority document)-(d) or (f).			
2. Certified copies of the priority documen		on No			
3. Copies of the certified copies of the price	prity documents have been receive	ed in this National Stage			
application from the International Burea	· · · · · · · · · · · · · · · · · · ·				
* See the attached detailed Office action for a list	t of the certified copies not receive	ed.			

U.S. Patent and Trademark Office PTOL-326 (Rev. 08-06)

1) Notice of References Cited (PTO-892)

Paper No(s)/Mail Date _____.

2) Notice of Draftsperson's Patent Drawing Review (PTO-948)

3) Information Disclosure Statement(s) (PTO/SB/08)

Attachment(s)

4) Interview Summary (PTO-413)
Paper No(s)/Mail Date. _____.

6) Other: _____.

5) Notice of Informal Patent Application

DETAILED ACTION

Response to Amendment

Applicant's request for reconsideration of the finality of the rejection of the last Office action is persuasive and, therefore, the finality of that action is withdrawn.

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

Claims 1-5, 7 and 33-35 are rejected under 35 U.S.C. 102(e) as being anticipated by Kokubo US Patent 5,609,633.

Kokubo discloses a titanium implant (see col. 6, lines 9-10) comprising a titanium oxide (see col. 2, lines 4-15) having a double layer structure of an upper porous layer of the titanium oxide with anodic incorporation of calcium and a lower compact barrier layer of the titanium oxide with anodic incorporation of the calcium, wherein the lower barrier layer comprises less of said additional element than the upper porous layer.

The reference discloses a layer having a composition with a transition of material concentration (therefore, the Examiner can interpreted the transitional layer as having three different layers perse). Therefore, the upper porous layer is the surface extending away from the substrate because concentration of titanium oxide is decreased as disclosed in col. 2, lines 21-22

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and the lower barrier layer is the layer having the larger concentration of titanium oxide as

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shown in col. 2, lines 21-25. See also col. 6, lines 9-17.

Regarding the calcium, see col. 3, lines 1-28.

Regarding claims 3-5, see col. 2, lines 25-28.

Allowable Subject Matter

Claims 8-11 and 36-37 are objected to as being dependent upon a rejected base claim, but

would be allowable if rewritten in independent form including all of the limitations of the base

claim and any intervening claims.

Conclusion

Any inquiry concerning this communication or earlier communications from the

examiner should be directed to Alvin J. Stewart whose telephone number is 571-272-4760. The

examiner can normally be reached on Monday-Friday 7:00AM-5:30PM(1 Friday B-week off).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, Corrine McDermott can be reached on 571-272-4754. The fax phone number for the

organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent

Application Information Retrieval (PAIR) system. Status information for published applications

may be obtained from either Private PAIR or Public PAIR. Status information for unpublished

applications is available through Private PAIR only. For more information about the PAIR

system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR

system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would

like assistance from a USPTO Customer Service Representative or access to the automated

information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

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December 12, 2006.